**CIV E 330 SYLLABUS**

COURSE NAME: Introduction to Fluid Mechanics- CIV E 330
DETAILS: 3 hour lectures, 1/1 hour Seminar
TERM: Fall

COURSE DESCRIPTION

\*3.5 (fi 8) (either term, 3-1S-0) Fluid properties; dimensional analysis; hydrostatics; fundamental equations

of fluid motion; laminar, turbulent and inviscid flows; boundary layers and flow around immersed bodies;

elementary building aerodynamics.

We cover almost all topics required of a Fluid Mechanics course by the CEAB. Topics NOT covered in CIV

E 330 are covered in future courses, and are shown below in square brackets []:

Fluid characteristics, dimensions and units, flow properties, and fluid properties; the fundamentals of fluid

statics, engineering applications of fluid statics; the one-dimensional equations of continuity, [momentum],

and energy; laminar and turbulent flow, flow separation, drag and lift on immersed objects; wall friction and

minor losses in closed conduit flow; flow of incompressible [and compressible] fluids in pipes; dimensional

analysis and similitude; [flow measurement methods].

REQUIRED MATERIAL

Potter, Wiggert and Ramadan, Mechanics of Fluids SI Edition (5th Ed., SI). Available from the bookstore

LECTURE CONTENT

No lecture content found in Syllabus.